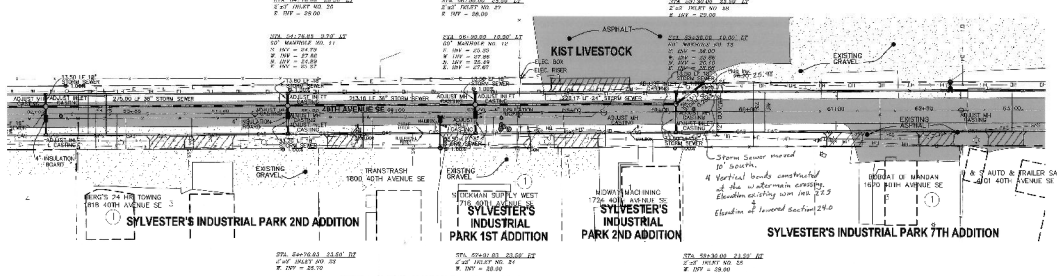


SCALE - 1"=40'

CONSTRUCTION NOTES (THIS SHEET)

1. THE EXISTING MANHOLE AT STA. 54+4.5 NEEDS TO BE LOWERED TO 10' DEPTH. THE EXISTING CURB & GUTTER SHALL REMAIN. THE EXISTING 18" DIA. RINGS, SLOTT AND COVER SECTION OF THE MANHOLE AND DISPOSE OF OFFSITE. CONSTRUCT NEW 24" DIA. 12' DEPTH RING SECTION TO BE PLACED IN THE REMAINING SECTIONS OF THE MANHOLE. THEN SET A CONCRETE CURB AND GUTTER ALONG WITH 4" ADJUSTING RINGS AND THE ORIGINAL CASTING ON TOP AND ADJUST TO FINISHED GRADE. PRELIMINARY MATERIAL AND CONSTRUCTION QUANTITIES FROM FALLING INTO THE MANHOLE. THIS MANHOLE WAS CONSTRUCTED IN THE 1970'S. SAID WORK SHALL BE CONSIDERED INCIDENTAL TO THE 12" DIA. RING FOR THIS MANHOLE SECTION.
2. AT STA. 58+39 AND STA. 62+45 REMOVE THE EXISTING ADJUSTING RINGS AND SLOTT AND COVER TO ADJUST THE MANHOLE CASTING DOWN TO THE PROPOSED STREET GRADE. SAID WORK SHALL BE CONSIDERED INCIDENTAL TO THE 12" DIA. RING FOR THIS MANHOLE SECTION.
3. REMOVE AND DISPOSE OFFSITE THE 12" DIA. RING AT APPROXIMATELY STA. 58+34.
4. THE LOCATION OF DRIVEWAYS WHICH WILL REQUIRE DROP CURB IS TO BE VERIFIED AT THE TIME OF CONSTRUCTION.
5. DRIVEWAYS NORTH OF 19TH STREET ON THE EAST SIDE OF 40TH AVENUE WILL HAVE 6" CONCRETE DRIVEWAYS CONSTRUCTED. THE LOCATIONS HAVE NOT YET BEEN DETERMINED. THE 6" CONCRETE DRIVEWAY 6" DIA. REFLECTS THESE QUANTITIES AND MAY BE ADJUSTED UP OR DOWN.
6. CONSIDER 3" THICK AC PAVEMENT FOR THE DETAIL FROM STA. 2140+00 TO STA. 48+00.00. CONSTRUCT 4" THICK AC PAVEMENT FOR THE DETAIL FROM STA. 48+00.00 NORTH TO MEMORIAL HIGHWAY.
7. REMOVE THE REMAINING ASPHALT PAVING ON 19TH STREET AND 40TH AVENUE TO THE CENTERLINE. CONSTRUCT 4" THICK ASPHALT PAVING AND 12" OF MILLWORK FOR CONSTRUCTION OF THE BASE FOR THE BIKE TRAIL.
8. THERE ARE A NUMBER OF MALBROKS, SIKES, FENDERS AND OTHER MISCELLANEOUS ITEMS ALONG WITH THE 40TH AVENUE SIDE FROM 19TH STREET TO MEMORIAL HIGHWAY. THE CONTRACTOR SHALL REMOVE, SALVAGE OR REUSE AS DIRECTED BY THE HIGHWAY. SAID WORK SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS.
9. REMOVE AND DISPOSE OFFSITE THE GROUP OF TREES AT APPROXIMATELY STA. 57+25. REMOVE TO A DUMP OR AT LEAST 24" BELOW EXISTING GRADE.
10. LOCATE THE EXISTING 8" WATERMAIN AT STA. 54+76.8. STA. 54+80.0 TO THE LOCATION OF THE PROPOSED 8" STORM SEWER. CENTERLINE AT 4' X 8' IN PLACE FROM STA. 54+76.8 TO THE TOP OF THE WATERMAIN.
11. LOCATE THE EXISTING 8" WATERMAIN AT STA. 58+30.0. OFFSETTING ON LOCATION THE MAINLINE MAY BE INSTALLED TO PROVIDE SOME SPANWAY BETWEEN THE EXISTING MAINLINE AND THE PROPOSED WATERMAIN SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THIS MAINLINE.
12. ALL THE OVERLAY LOCATION ON THE WEST SIDE OF 40TH AVENUE IS SAW OUT THE EXISTING ASPHALT PAVEMENT AT THE RIGHT OF WAY AS SHOWN TO PARALLEL TO THE PROPOSED CURB AND GUTTER. PROVIDE A CLEAN, VERTICAL EDGE. REMOVE THE REMAINING ASPHALT WITHIN THE RIGHT OF WAY TO 10' FROM THE RIGHT OF WAY LINE.



STORM SEWER MANHOLE AND INLET SCHEDULE

MANHOLE NO.	INLET NO. 1	INLET NO. 2	INLET NO. 3	INLET NO. 4	INLET NO. 5	INLET NO. 6	INLET NO. 7	INLET NO. 8	INLET NO. 9	INLET NO. 10	INLET NO. 11	INLET NO. 12
52+00	52+00	52+00	52+00	52+00	52+00	52+00	52+00	52+00	52+00	52+00	52+00	52+00
53+00	53+00	53+00	53+00	53+00	53+00	53+00	53+00	53+00	53+00	53+00	53+00	53+00
54+00	54+00	54+00	54+00	54+00	54+00	54+00	54+00	54+00	54+00	54+00	54+00	54+00
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62+00	62+00	62+00	62+00	62+00	62+00	62+00	62+00	62+00	62+00	62+00	62+00	62+00
63+00	63+00	63+00	63+00	63+00	63+00	63+00	63+00	63+00	63+00	63+00	63+00	63+00

Sta. 52+00.00  
Begin Storm Sewer Quantities

Sta. 63+00.00  
End Storm Sewer Quantities

APPROXIMATE QUANTITIES

GRAVEL	1.15
Concrete	40.00
Asphalt	230.00
Aggregate	1,000.00
Storm Sewer	100.00
Manhole	10.00
Curb & Gutter	10.00
Drainage	10.00
Excavation	10.00
ASPHALT ITEMS	10.00
AC Base Course (Class B)	10.00
AC Surface Course (Class A)	10.00
Aggregate Sub Course	10.00
Concrete	10.00
Storm Sewer	10.00
Manhole	10.00
Curb & Gutter	10.00
Drainage	10.00
Excavation	10.00
MISCELLANEOUS ITEMS	10.00
Storm Sewer	10.00
Manhole	10.00
Curb & Gutter	10.00
Drainage	10.00
Excavation	10.00



40TH AVENUE  
FROM 200' NORTH OF 19TH STREET SE TO  
575' SOUTH OF MEMORIAL HIGHWAY  
STREET IMPROVEMENT DISTRICT NO. 133  
SHEET C5 OF 19 PROJECT 2005-16  
1610 MANDAN, ND JULY 22, 2005



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